

# The #1 Bunion Product in the US<sup>1</sup>

## Lapiplasty<sup>®</sup>

3-Plane Correction at the CORA



Instrumented Reproducibility.

***Rapid*** Weight-Bearing.<sup>2</sup>

Low Recurrence.<sup>2,3</sup>

**TREACE<sup>®</sup>**  
Medical Concepts, Inc.

*The Leader in Hallux Valgus Surgery<sup>™</sup>*

# What is the Lapiplasty® Procedure?

An instrumented, reproducible approach to 3-plane correction with rapid return to weight-bearing<sup>2</sup>

## Correct.

Make your correction **before** you cut

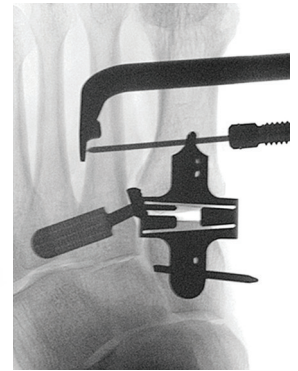
The **Lapiplasty® Positioner** is engineered to quickly and reproducibly correct the alignment in all three planes, establishing and holding true anatomic alignment of the metatarsal and sesamoids.<sup>2</sup>



## Cut.

Perform precision cuts with confidence

The **Lapiplasty® Cut Guide** delivers precise cuts with the metatarsal held in the corrected position, ensuring optimal cut trajectory with 2.4-3.1mm of average metatarsal shortening.<sup>4</sup>



## Compress.

Achieve controlled compression of joint surfaces

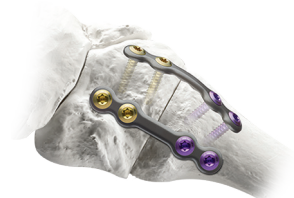
The **Lapiplasty® Compressor** delivers over 150N of controlled compression<sup>5</sup> to the precision-cut joint surfaces, while maintaining the 3-plane correction.



## Fixate.

Apply multiplanar fixation for robust stability

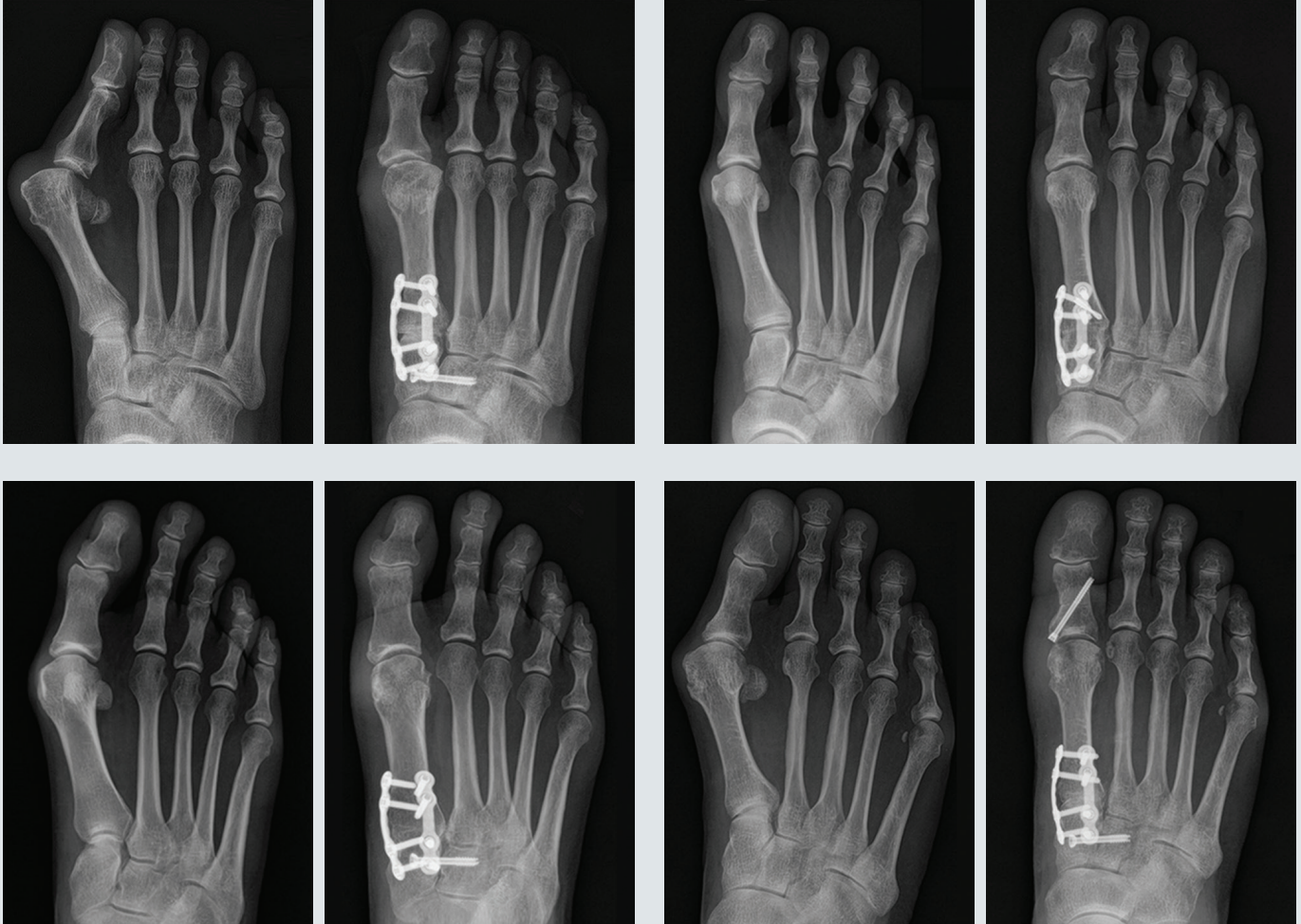
Low-profile **Biplanar™ Plating** provides biomechanically-tested<sup>6,7</sup> multiplanar stability for rapid return to weight-bearing.<sup>2</sup>



1. Trailing 12mo. revenue based on company market estimates. | 2. Ray J, et al. *Foot Ankle Int.* 2019 Aug;40(8):955-960. | 3. Dayton P, et al. *J Foot Ankle Surg.* 2020, 59(2): 291-297. | 4. Hatch D, et al. *Foot & Ankle Ortho.* 2020, 5(4): 1-8. | 5. Data on file. | 6. Dayton P, et al. *J Foot Ankle Surg.* 2016. 55:567-71. | 7. Data on file.

## The Reproducible Solution for Your Bunion Patients

Patented **correct before you cut** approach for reproducible results



## The Triplanar Solution Patients Are Searching For

**450K+**

Patient website visits to  
Lapiplasty.com  
each month

Data on file

**50K+**

"Find a doctor" searches  
on Lapiplasty.com  
each month

Data on file

**1K+**

Surgeons growing  
their bunion practice  
with Lapiplasty®



# Lapiplasty® System

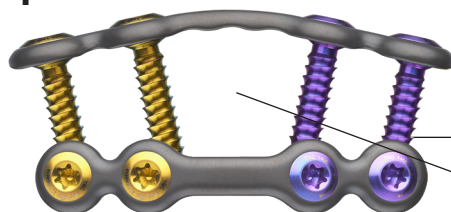
## Anatomic Biplanar™ Implants

# S1

## Lapiplasty® System 1

Sterile-packed Biplanar™ Plating kit for versatility to fit each patient's anatomy, while delivering superior multiplanar strength.<sup>3</sup>

**SK12**



- Low-profile, anatomic shape contoured to fit the 1st TMT joint
- 2.7mm standard-sized locking screws eliminates intra-operative measuring
- Biplanar™ configuration for multiplanar stability

Plate Width	<b>3.6mm</b>	Locking Screws	<b>2.7x12mm (5)</b>	<b>2.7x14mm (4)</b>
-------------	--------------	----------------	---------------------	---------------------

# S2

## Lapiplasty® System 2

An evolution of Biplanar™ Plating with increased cross-sectional width for additional construct strength.

**SK14**



- Anatomic contour and low-profile thickness maintained
- 2.7mm star-drive screws for excellent screw driver engagement; compatible across systems
- Increased cross-sectional width for improved stability

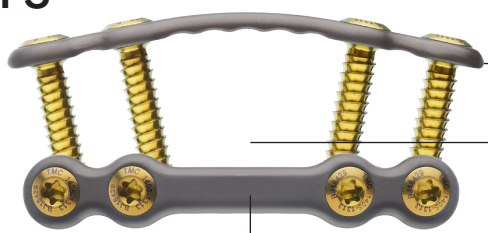
Plate Width	<b>3.9mm</b>	Locking Screws	<b>2.7x12mm (5)</b>	<b>2.7x14mm (4)</b>
-------------	--------------	----------------	---------------------	---------------------

# S3<sup>R</sup>

## Lapiplasty® System 3<sup>R</sup>

Versatile Biplanar™ Plating option with widest cross-section, 3.0mm screws, and increased span to address revision cases and challenging anatomy.

**SK23**



- Low-profile thickness maintained
- Increased center span (+5mm) to accommodate grafts and challenging anatomy
- Most cross-sectional width for robust stabilization

Plate Width	<b>4.3mm</b>	Locking Screws	<b>3.0x12mm (4)</b>	<b>3.0x16mm (8)</b>
-------------	--------------	----------------	---------------------	---------------------

## Lapiplasty® FastPitch™ 2.7mm High Pitch Locking Screws

Increased thread pitch ratio for faster insertion and plate compression.<sup>1</sup>

**2.7mm x 16mm (4) SD21**



## Lapiplasty® Long Locking Screws

**2.7mm Long Screw Pack SD16**

2.7x16mm (2) + 2.7x18mm (2)

**3.0mm Long Screw Pack SD17**

3.0x18mm (2) + 3.0x20mm (2)



# One System for All Your Hallux Valgus Needs

Sterile-packed kits for operational efficiency

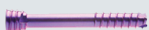
## Lapiplasty® Accessory Kits

### Headless Screws\*

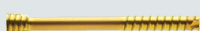
Headless titanium compression screws for Akin osteotomies, tarsal-metatarsal fusions, & other applications

#### SK20

2.5x20mm

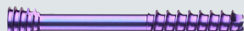


2.5x28mm

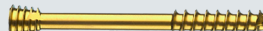


#### SK26

4.0x36mm



4.0x40mm

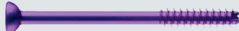


### Headed Interfrag Screws\*

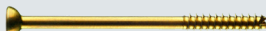
Low-profile headed, titanium cannulated compression screws for tarsal-metatarsal fusions & other applications

#### SK18

3.0x36mm



3.0x40mm

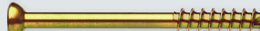


#### SK25

4.0x36mm



4.0x40mm

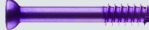


### Transverse Screws\*

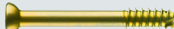
Low-profile headed, titanium cannulated compression screws for tarsal fusion & other applications

#### SK19

3.5x23mm



3.5x26mm



### Fully Threaded Screws\*

#### SK37

4.0x32mm



4.0x36mm



#### SK38

4.0x38mm



4.0x42mm

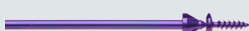


### Snap-Off Screws\*\*

Titanium snap-off screws for Weil osteotomies & other applications

#### SK21

2.0x12mm



2.0x14mm

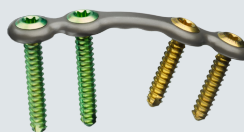


### Lesser TMT Fixation Pack

Single low-profile S1 plate w/ locking screws for lesser TMT fusions & other applications

#### SK28

S1 Plate | 2.7x14mm (2) | 2.7x18mm (3)



### FastGrafter® Autograft Harvesting System (7mm)

Sterile-packed, single-use device for quick and efficient harvest of cancellous autogenous bone from the calcaneus, distal tibia, and other harvest sites through a minimal incision approach.

#### SK27



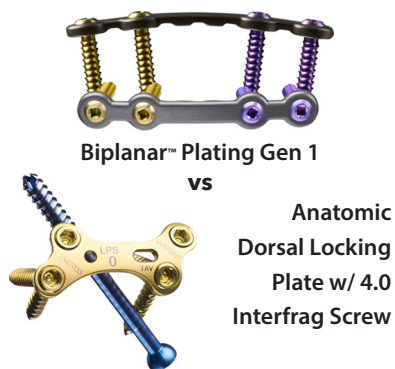
See Instructions for Use LBL 1405-9056\* or LBL 1405-9110\*\*



# Biomechanically Proven for Rapid Weight-Bearing

Biomechanical test specimens were constructed using Sawbones® surrogate bone models (Pacific Research Laboratories Inc, Vashon, WA) and tested in cantilever bending to simulate functional 1st TMT joint loading. The testing included both static ultimate failure and cyclic load to failure. Three different studies were performed under this test protocol, which are detailed below.

## Gen1 vs. Conventional Plating

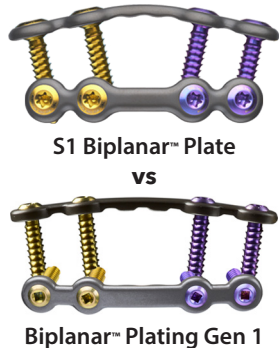


**130%**  
Increase in  
Ultimate Failure Load

**30%**  
Increase in  
Cycles to Failures

Dayton et al, J Foot Ankle Surg. 2016, 55:567-71.

## S1 vs. Gen1

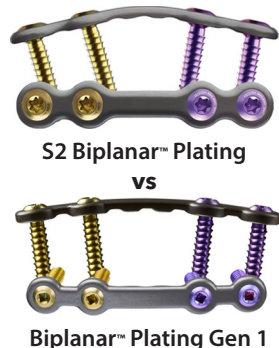


**50%**  
Increase in  
Ultimate Failure Load

**100%+**  
Increase in  
Cycles to Failures

TMC Data on file.

## S2 vs. Gen1



**78%**  
Increase in  
Ultimate Failure Load

**179%**  
Increase in  
Cycles to Failures

TMC Data on file. (M171A)

# The Evidence-Based Solution for 3-Plane Correction

Treace Medical Concepts is dedicated to advancing the understanding of the Lapiplasty® Procedure through research studies and publications in the peer-reviewed literature. The Lapiplasty® procedure is directly supported by 15 publications, demonstrating rapid weight bearing, low recurrence, and instrumented reproducibility.

# #1

Leader in the **scientific study** of hallux valgus

*PearlDiver Independent Survey*

# 17

**Clinical publications** directly supporting the Lapiplasty® Procedure

## Refined, Tested & Validated

Lapiplasty® offers:

**97-99% reproducible 3D correction<sup>1,2</sup>**



**<2 weeks return to weight-bearing<sup>1,2,5</sup>**



**10.4mm average reduction in foot width<sup>3</sup>**



**2.4-3.1mm average shortening of first ray<sup>4</sup>**



**2-3% non-union rate<sup>1,5</sup>**



**3% hardware removal rate<sup>5</sup>**



**1-3% recurrence rate<sup>1,2</sup>**



**30% increase in cycles to failure with Biplanar™ Plating<sup>6</sup>**  
(compared to dorsomedial Lapidus plate + compression screw)



### Multicenter Early Radiographic Outcomes of Triplanar Tarsometatarsal Arthrodesis With Early Weightbearing<sup>7</sup>

Multicenter, retrospective study of 57 hallux valgus (62 feet) patients treated with the Lapiplasty® Procedure and early return to weight-bearing at mean follow-up of 13.5 months.

#### Highlights of the study:

- Mean return to weight-bearing at 10.9 days in a walking boot
- 96.8% of study patients maintained their 3-plane bunion correction as assessed by Intermetatarsal Angle (IMA), Hallux Valgus Angle (HVA) and Tibial Sesamoid Position (TSP)
- Symptomatic non-union rate of 1.6% (1 foot)

### Progression of Healing on Serial Radiographs Following First Ray Arthrodesis in the Foot Using a Biplanar Plating Technique Without Compression<sup>8</sup>

Multicenter, retrospective study of bone healing with accelerated weightbearing protocol in 195 patients undergoing TMT or MTP fusions with Lapiplasty® biplanar plating at mean follow up of 9.5 months.

#### Highlights of the study:

- Patients began weight-bearing at 5 days post-op in a walking boot
- 97.4% of the patients demonstrated a successful bony fusion and 98.9% of the patients maintained a stable joint position
- 3.1% overall implant removal rate for irritation and hardware failure

1. Ray J, et al. *Foot Ankle Int.* 2019;40(8):955-960. | 2. Dayton P, et al. *J Foot Ankle Surg.* 2020, 59(2): 291-297. | 3. Vaida J, et al. *Foot & Ankle Orthopaedics.* 2020. Vol. 5(3) 1-5. | 4. Hatch D, et al. *Foot & Ankle Ortho.* 2020, 5(4): 1-8. | 5. Dayton P, et al. *J Foot Ankle Surg.* 2019; 58(3):427-433. | 6. Dayton P, et al. *J Foot Ankle Surg.* 2016. 55:567-71. | 7. Ray J, et al. *Foot Ankle Int.* 2019 Aug;40(8):955-960. | 8. Dayton P, et al. *J Foot Ankle Surg.* 2019. 58:427-433.



# Lapiplasty® Mini-Incision™ System

The Power of Lapiplasty®

Now Through a 3.5cm Incision

## Mini-Incision™ **NEW**

Precision Instrumentation Set

### Mini Incision + Triplanar Correction Minus the Compromise

By applying the Mini-Incision™ Positioner over the skin of the 1st metatarsal, the Lapiplasty® Mini-Incision™ System is designed to deliver the patented **Correct Before You Cut** approach for precision 3-plane correction through a 3.5cm dorsal incision.

## PlantarPower™ **NEW**

Anatomic Tension-Side Plate

### Powerful Tension-Side Fixation Designed for a Mini Incision

The PlantarPower™ Plate is uniquely contoured to span plantarly across the tension-side of the 1st TMT joint, while providing easy access to each locking screw without the need for extensive retraction of the mini dorsal incision.

Anatomic contour  
accommodates  
tibialis anterior  
tendon insertion

Center span extends  
plantarly across  
tension-side of  
1st TMT joint

3D anatomic, U-shaped  
curvature for access to  
locking screws through  
a mini dorsal incision



*The Leader in Hallux Valgus Surgery™*

**TREACE**  
Medical Concepts, Inc.